

Title (en)  
ENHANCED SECURITY FOR ACCESS STRATUM TRANSMISSION

Title (de)  
ERHÖHTE SICHERHEIT FÜR EINE ACCESS-STRATUM-ÜBERTRAGUNG

Title (fr)  
SÉCURITÉ AMÉLIORÉE POUR UNE TRANSMISSION DE STRATE D'ACCÈS

Publication  
**EP 3811649 A4 20220119 (EN)**

Application  
**EP 18923105 A 20180622**

Priority  
CN 2018092396 W 20180622

Abstract (en)  
[origin: WO2019241999A1] This disclosure relates to techniques, base stations, and user equipment devices (UEs) for performing base station authentication through access stratum signaling transmissions. The UE may operate in idle mode and may receive an authentication message from a base station through the wireless interface while operating in idle mode. The UE may determine whether a signature comprised within the authentication message is valid, and the UE may continue a connection procedure with the base station based on a determination that the signature is valid. If it is determined that the signature is invalid, the UE may designate the base station as a barred base station and may perform cell re-selection. The authentication message may be one of a radio resource control (RRC) connection setup message, a special RRC message, a media access control (MAC) message, or a random access channel (RACH) message comprising a random access response (RAR) message.

IPC 8 full level  
**H04W 12/06** (2021.01); **H04W 12/069** (2021.01); **H04W 12/108** (2021.01); **H04W 12/122** (2021.01)

CPC (source: EP US)  
**H04L 63/126** (2013.01 - EP); **H04W 12/069** (2021.01 - EP US); **H04W 12/108** (2021.01 - EP US); **H04W 12/73** (2021.01 - US); **H04W 74/0833** (2013.01 - US); **H04W 76/27** (2018.02 - US)

Citation (search report)

- [XA] WO 2018081042 A1 20180503 - ALCATEL LUCENT USA INC [US]
- [XA] INTEL: "pCR to TR 33.899: Fake gNB Detection using Identity Based Signature", vol. SA WG3, no. Sophia Antipolis (France); 20170206 - 20170210, 10 February 2017 (2017-02-10), XP051217763, Retrieved from the Internet <URL:http://www.3gpp.org/ftp/Meetings\_3GPP\_SYNC/SA3/Docs/> [retrieved on 20170210]
- See also references of WO 2019241999A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2019241999 A1 20191226**; CN 112335272 A 20210205; EP 3811649 A1 20210428; EP 3811649 A4 20220119; EP 4075845 A1 20221019; US 11895495 B2 20240206; US 2021204129 A1 20210701

DOCDB simple family (application)  
**CN 2018092396 W 20180622**; CN 201880094649 A 20180622; EP 18923105 A 20180622; EP 22177205 A 20180622; US 201817057622 A 20180622